

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/528,031DATE: 07/30/2001  
TIME: 15:59:55Input Set : A:\seqlst.txt  
Output Set: N:\CRF3\07302001\I528031.raw

P #8

ENTERED

## SEQUENCE LISTING

4 (1) GENERAL INFORMATION:  
6 (i) APPLICANT: SHYJAN, Andrew  
8 (ii) TITLE OF INVENTION: NOVEL MULTIDRUG RESISTANCE-ASSOCIATED  
9 POLYPEPTIDE  
11 (iii) NUMBER OF SEQUENCES: 8  
13 (iv) CORRESPONDENCE ADDRESS:  
14 (A) ADDRESSEE: LAHIVE & COCKFIELD, LLP  
15 (B) STREET: 28 State Street  
16 (C) CITY: Boston  
17 (D) STATE: Massachusetts  
18 (E) COUNTRY: USA  
19 (F) ZIP: 02109  
21 (v) COMPUTER READABLE FORM:  
22 (A) MEDIUM TYPE: Floppy disk  
23 (B) COMPUTER: IBM PC compatible  
24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
27 (vi) CURRENT APPLICATION DATA:  
28 (A) APPLICATION NUMBER: US/09/528,031  
C--> 29 (B) FILING DATE: 17-Mar-2001  
30 (C) CLASSIFICATION:  
32 (viii) ATTORNEY/AGENT INFORMATION:  
33 (A) NAME: Elizabeth A. Hanley  
34 (B) REGISTRATION NUMBER: 33,505  
35 (C) REFERENCE/DOCKET NUMBER: MNI-056CP  
37 (ix) TELECOMMUNICATION INFORMATION:  
38 (A) TELEPHONE: (617) 227-7400  
39 (B) TELEFAX: (617) 742-4214  
42 (2) INFORMATION FOR SEQ ID NO: 1:  
44 (i) SEQUENCE CHARACTERISTICS:  
45 (A) LENGTH: 4847 base pairs  
46 (B) TYPE: nucleic acid  
47 (C) STRANDEDNESS: single  
48 (D) TOPOLOGY: linear  
50 (ix) FEATURE:  
51 (A) NAME/KEY: CDS  
52 (B) LOCATION: 116..4426  
54 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
56 GGCTCATGCT CGGGAGCGTG GTTGAGCGGC TGGCGCGGTT GTCCTGGAGC AGGGGGCGCAG 60  
58 GAATTCTGAT GTGAAACTAA CAGTCTGTGA GCCCTGGAAC CTCCACTCAG AGAAG ATG 118  
59 Met  
60 1  
62 AAG GAT ATC GAC ATA GGA AAA GAG TAT ATC ATC CCC AGT CCT GGG TAT 166  
63 Lys Asp Ile Asp Ile Gly Lys Glu Tyr Ile Ile Pro Ser Pro Gly Tyr  
64 5 10 15  
66 AGA AGT GTG AGG GAG AGA ACC AGC ACT TCT GGG ACG CAC AGA GAC CGT 214

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/528,031

DATE: 07/30/2001

TIME: 15:59:55

Input Set : A:\seqlst.txt

Output Set: N:\CRF3\07302001\I528031.raw

67	Arg	Ser	Val	Arg	Glu	Arg	Thr	Ser	Thr	Ser	Gly	Thr	His	Arg	Asp	Arg	
68		20		25							30						
70	GAA	GAT	TCC	AAG	TTC	AGG	AGA	ACT	CGA	CCG	TTG	GAA	TGC	CAA	GAT	GCC	262
71	Glu	Asp	Ser	Lys	Phe	Arg	Arg	Thr	Arg	Pro	Leu	Glu	Cys	Gln	Asp	Ala	
72		35			40						45						
74	TTG	GAA	ACA	GCA	GCC	CGA	GCC	GAG	GGC	CTC	TCT	CTT	GAT	GCC	TCC	ATG	310
75	Leu	Glu	Thr	Ala	Ala	Arg	Ala	Glu	Gly	Leu	Ser	Leu	Asp	Ala	Ser	Met	
76	50		55			60					65						
78	CAT	TCT	CAG	CTC	AGA	ATC	CTG	GAT	GAG	CAT	CCC	AAG	GGA	AAG	TAC		358
79	His	Ser	Gln	Leu	Arg	Ile	Leu	Asp	Glu	Glu	His	Pro	Lys	Gly	Lys	Tyr	
80		70			75						80						
82	CAT	CAT	GGC	TTG	AGT	GCT	CTG	AAG	CCC	ATC	CGG	ACT	ACT	TGC	AAA	CAC	406
83	His	His	Gly	Leu	Ser	Ala	Leu	Lys	Pro	Ile	Arg	Thr	Thr	Cys	Lys	His	
84		85			90						95						
86	CAG	CAC	CCA	GTG	GAC	AAT	GCT	GGG	CTT	TTT	TCC	TGT	ATG	ACT	TTT	TCG	454
87	Gln	His	Pro	Val	Asp	Asn	Ala	Gly	Leu	Phe	Ser	Cys	Met	Thr	Phe	Ser	
88		100			105						110						
90	TGG	CTT	TCT	CTG	GCC	CGT	GTG	GCC	CAC	AAG	AAG	GGG	GAG	CTC	TCA		502
91	Trp	Leu	Ser	Ser	Leu	Ala	Arg	Val	Ala	His	Lys	Lys	Gly	Glu	Leu	Ser	
92		115			120						125						
94	ATG	GAA	GAC	GTG	TGG	TCT	CTG	TCC	AAG	CAC	GAG	TCT	TCT	GAC	GTG	AAC	550
95	Met	Glu	Asp	Val	Trp	Ser	Leu	Ser	Lys	His	Glu	Ser	Ser	Asp	Val	Asn	
96	130		135			140					145						
98	TGC	AGA	AGA	CTA	GAG	AGA	CTG	TGG	CAA	GAA	GAG	CTG	AAT	GAA	GTT	GGG	598
99	Cys	Arg	Arg	Leu	Glu	Arg	Leu	Trp	Gln	Glu	Glu	Leu	Asn	Glu	Val	Gly	
100		150			155						160						
102	CCA	GAC	GCT	GCT	TCC	CTG	CGA	AGG	GTT	GTG	TGG	ATC	TTC	TGC	CGC	ACC	646
103	Pro	Asp	Ala	Ala	Ser	Leu	Arg	Arg	Val	Val	Trp	Ile	Phe	Cys	Arg	Thr	
104		165			170						175						
106	AGG	CTC	ATC	CTG	TCC	ATC	GTG	TGC	CTG	ATG	ATC	ACG	CAG	CTG	GCT	GGC	694
107	Arg	Leu	Ile	Leu	Ser	Ile	Val	Cys	Leu	Met	Ile	Thr	Gln	Leu	Ala	Gly	
108		180			185						190						
110	TTC	AGT	GGA	CCA	GCC	TTC	ATG	GTG	AAA	CAC	CTC	TTG	GAG	TAT	ACC	CAG	742
111	Phe	Ser	Gly	Pro	Ala	Phe	Met	Val	Lys	His	Leu	Leu	Glu	Tyr	Thr	Gln	
112		195			200						205						
114	GCA	ACA	GAG	TCT	AAC	CTG	CAG	TAC	AGC	TTG	TTG	TTA	GTG	CTG	GGC	CTC	790
115	Ala	Thr	Glu	Ser	Asn	Leu	Gln	Tyr	Ser	Leu	Leu	Leu	Val	Leu	Gly	Leu	
116	210		215			220					225						
118	CTC	CTG	ACG	GAA	ATC	GTG	CGG	TCT	TGG	TCG	CTT	GCA	CTG	ACT	TGG	GCA	838
119	Leu	Leu	Thr	Glu	Ile	Val	Arg	Ser	Trp	Ser	Leu	Ala	Leu	Thr	Trp	Ala	
120		230			235						240						
122	TTG	AAT	TAC	CGA	ACC	GGT	GTC	CGC	TTG	CGG	GGG	GCC	ATC	CTA	ACC	ATG	886
123	Leu	Asn	Tyr	Arg	Thr	Gly	Val	Arg	Leu	Arg	Gly	Ala	Ile	Leu	Thr	Met	
124		245			250						255						
126	GCA	TTT	AAG	AAG	ATC	CTT	AAG	TTA	AAG	AAC	ATT	AAA	GAG	AAA	TCC	CTG	934
127	Ala	Phe	Lys	Lys	Ile	Leu	Lys	Leu	Lys	Asn	Ile	Lys	Glu	Lys	Ser	Leu	
128		260			265						270						
130	GGT	GAG	CTC	ATC	AAC	ATT	TGC	TCC	AAC	GAT	GGG	CAG	AGA	ATG	TTT	GAG	982
131	Gly	Glu	Leu	Ile	Asn	Ile	Cys	Ser	Asn	Asp	Gly	Gln	Arg	Met	Phe	Glu	

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/528,031

DATE: 07/30/2001  
TIME: 15:59:55

Input Set : A:\seqlst.txt  
Output Set: N:\CRF3\07302001\I528031.raw

132	275	280	285														
134	GCA	GCA	GCC	GTT	GGC	AGC	CTG	CTG	GCT	GGA	GGA	CCC	GTT	GTT	GCC	ATC	1030
135	Ala	Ala	Ala	Val	Gly	Ser	Leu	Leu	Ala	Gly	Gly	Pro	Val	Val	Ala	Ile	
136	290		295						300							305	
138	TTA	GGC	ATG	ATT	TAT	AAT	GTA	ATT	ATT	CTG	GGA	CCA	ACA	GGC	TTC	CTG	1078
139	Leu	Gly	Met	Ile	Tyr	Asn	Val	Ile	Ile	Leu	Gly	Pro	Thr	Gly	Phe	Leu	
140									310		315				320		
142	GGA	TCA	GCT	GTT	TTT	ATC	CTC	TTT	TAC	CCA	GCA	ATG	ATG	TTT	GCA	TCA	1126
143	Gly	Ser	Ala	Val	Phe	Ile	Leu	Phe	Tyr	Pro	Ala	Met	Met	Phe	Ala	Ser	
144									325		330				335		
146	CGG	CTC	ACA	GCA	TAT	TTC	AGG	AGA	AAA	TGC	GTG	GCC	GCC	ACG	GAT	GAA	1174
147	Arg	Leu	Thr	Ala	Tyr	Phe	Arg	Arg	Lys	Cys	Val	Ala	Ala	Thr	Asp	Glu	
148									340		345				350		
150	CGT	GTC	CAG	AAG	ATG	AAT	GAA	GTT	CTT	ACT	TAC	ATT	AAA	TTT	ATC	AAA	1222
151	Arg	Val	Gln	Lys	Met	Asn	Glu	Val	Leu	Thr	Tyr	Ile	Lys	Phe	Ile	Lys	
152									355		360				365		
154	ATG	TAT	GCC	TGG	GTC	AAA	GCA	TTT	TCT	CAG	AGT	GTT	CAG	AAA	ATC	CGC	1270
155	Met	Tyr	Ala	Trp	Val	Lys	Ala	Phe	Ser	Gln	Ser	Val	Gln	Lys	Ile	Arg	
156	370					375				380						385	
158	GAG	GAG	GAG	CGT	CGG	ATA	TTG	GAA	AAA	GCC	GGG	TAC	TTC	CAG	AGC	ATC	1318
159	Glu	Glu	Glu	Arg	Arg	Ile	Leu	Glu	Lys	Ala	Gly	Tyr	Phe	Gln	Ser	Ile	
160						390				395						400	
162	ACT	GTG	GGT	GTG	GCT	CCC	ATT	GTG	GTG	GTG	ATT	GCC	AGC	GTG	GTG	ACC	1366
163	Thr	Val	Gly	Val	Ala	Pro	Ile	Val	Val	Val	Ile	Ala	Ser	Val	Val	Thr	
164						405				410						415	
166	TTC	TCT	GTT	CAT	ATG	ACC	CTG	GGC	TTC	GAT	CTG	ACA	GCA	GCA	CAG	GCT	1414
167	Phe	Ser	Val	His	Met	Thr	Leu	Gly	Phe	Asp	Leu	Thr	Ala	Ala	Gln	Ala	
168						420			425							430	
170	TTC	ACA	GTG	GTG	ACA	GTC	TTC	AAT	TCC	ATG	ACT	TTT	GCT	TTG	AAA	GTA	1462
171	Phe	Thr	Val	Val	Thr	Val	Phe	Asn	Ser	Met	Thr	Phe	Ala	Leu	Lys	Val	
172						435			440							445	
174	ACA	CCG	TTT	TCA	GTA	AAG	TCC	CTC	TCA	GAA	GCC	TCA	GTG	GCT	GTT	GAC	1510
175	Thr	Pro	Phe	Ser	Val	Lys	Ser	Leu	Ser	Glu	Ala	Ser	Val	Ala	Val	Asp	
176	450					455				460						465	
178	AGA	TTT	AAG	AGT	TTG	TTT	CTA	ATG	GAA	GAG	GTT	CAC	ATG	ATA	AAG	AAC	1558
179	Arg	Phe	Lys	Ser	Leu	Phe	Leu	Met	Glu	Glu	Val	His	Met	Ile	Lys	Asn	
180						470			475							480	
182	AAA	CCA	GCC	AGT	CCT	CAC	ATC	AAG	ATA	GAG	ATG	AAA	AAT	GCC	ACC	TTG	1606
183	Lys	Pro	Ala	Ser	Pro	His	Ile	Lys	Ile	Glu	Met	Lys	Asn	Ala	Thr	Leu	
184						485			490							495	
186	GCA	TGG	GAC	TCC	TCC	CAC	TCC	AGT	ATC	CAG	AAC	TCG	CCC	AAG	CTG	ACC	1654
187	Ala	Trp	Asp	Ser	Ser	His	Ser	Ser	Ile	Gln	Asn	Ser	Pro	Lys	Leu	Thr	
188						500			505							510	
190	CCC	AAA	ATG	AAA	AAA	GAC	AAG	AGG	GCT	TCC	AGG	GGC	AAG	AAA	GAG	AAG	1702
191	Pro	Lys	Met	Lys	Lys	Asp	Lys	Arg	Ala	Ser	Arg	Gly	Lys	Lys	Glu	Lys	
192						515			520							525	
194	GTG	AGG	CAG	CTG	CAG	CGC	ACT	GAG	CAT	CAG	GCG	GTG	CTG	GCA	GAG	CAG	1750
195	Val	Arg	Gln	Leu	Gln	Arg	Thr	Glu	His	Gln	Ala	Val	Leu	Ala	Glu	Gln	
196						530			535							540	
																545	

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/528,031

DATE: 07/30/2001  
TIME: 15:59:55

Input Set : A:\seqlst.txt  
Output Set: N:\CRF3\07302001\I528031.raw

198 AAA GGC CAC CTC CTC CTG GAC AGT GAC GAG CGG CCC AGT CCC GAA GAG	1798
199 Lys Gly His Leu Leu Leu Asp Ser Asp Glu Arg Pro Ser Pro Glu Glu	
200 550 555 560	
202 GAA GAA GGC AAG CAC ATC CAC CTG GGC CAC CTG CGC TTA CAG AGG ACA	1846
203 Glu Glu Gly Lys His Ile His Leu Gly His Leu Arg Leu Gln Arg Thr	
204 565 570 575	
206 CTG CAC AGC ATC GAT CTG GAG ATC CAA GAG GGT AAA CTG GTT GGA ATC	1894
207 Leu His Ser Ile Asp Leu Glu Ile Gln Glu Gly Lys Leu Val Gly Ile	
208 580 585 590	
210 TGC GGC AGT GTG GGA AGT GGA AAA ACC TCT CTC ATT TCA GCC ATT TTA	1942
211 Cys Gly Ser Val Gly Ser Gly Lys Thr Ser Leu Ile Ser Ala Ile Leu	
212 595 600 605	
214 GGC CAG ATG ACG CTT CTA GAG GGC AGC ATT GCA ATC AGT GGA ACC TTC	1990
215 Gly Gln Met Thr Leu Leu Glu Gly Ser Ile Ala Ile Ser Gly Thr Phe	
216 610 615 620 625	
218 GCT TAT GTG GCC CAG CAG GCC TGG ATC CTC AAT GCT ACT CTG AGA GAC	2038
219 Ala Tyr Val Ala Gln Gln Ala Trp Ile Leu Asn Ala Thr Leu Arg Asp	
220 630 635 640	
222 AAC ATC CTG TTT GGG AAG GAA TAT GAT GAA GAA AGA TAC AAC TCT GTG	2086
223 Asn Ile Leu Phe Gly Lys Glu Tyr Asp Glu Glu Arg Tyr Asn Ser Val	
224 645 650 655	
226 CTG AAC AGC TGC TGC CTG AGG CCT GAC CTG GCC ATT CTT CCC AGC AGC	2134
227 Leu Asn Ser Cys Cys Leu Arg Pro Asp Leu Ala Ile Leu Pro Ser Ser	
228 660 665 670	
230 GAC CTG ACG GAG ATT GGA GAG CGA GGA GCC AAC CTG AGC GGT GGG CAG	2182
231 Asp Leu Thr Glu Ile Gly Glu Arg Gly Ala Asn Leu Ser Gly Gly Gln	
232 675 680 685	
234 CGC CAG AGG ATC AGC CTT GCC CGG GCC TTG TAT AGT GAC AGG AGC ATC	2230
235 Arg Gln Arg Ile Ser Leu Ala Arg Ala Leu Tyr Ser Asp Arg Ser Ile	
236 690 695 700 705	
238 TAC ATC CTG GAC GAC CCC CTC AGT GCC TTA GAT GCC CAT GTG GGC AAC	2278
239 Tyr Ile Leu Asp Asp Pro Leu Ser Ala Leu Asp Ala His Val Gly Asn	
240 710 715 720	
242 CAC ATC TTC AAT AGT GCT ATC CGG AAA CAT CTC AAG TCC AAG ACA GTT	2326
243 His Ile Phe Asn Ser Ala Ile Arg Lys His Leu Lys Ser Lys Thr Val	
244 725 730 735	
246 CTG TTT GTT ACC CAC CAG TTA CAG TAC CTG GTT GAC TGT GAT GAA GTG	2374
247 Leu Phe Val Thr His Gln Leu Gln Tyr Leu Val Asp Cys Asp Glu Val	
248 740 745 750	
250 ATC TTC ATG AAA GAG GGC TGT ATT ACG GAA AGA GGC ACC CAT GAG GAA	2422
251 Ile Phe Met Lys Glu Gly Cys Ile Thr Glu Arg Gly Thr His Glu Glu	
252 755 760 765	
254 CTG ATG AAT TTA AAT GGT GAC TAT GCT ACC ATT TTT AAT AAC CTG TTG	2470
255 Leu Met Asn Leu Asn Gly Asp Tyr Ala Thr Ile Phe Asn Asn Leu Leu	
256 770 775 780 785	
258 CTG GGA GAG ACA CCG CCA GTT GAG ATC AAT TCA AAA AAG GAA ACC AGT	2518
259 Leu Gly Glu Thr Pro Pro Val Glu Ile Asn Ser Lys Lys Glu Thr Ser	
260 790 795 800	
262 GGT TCA CAG AAG AAG TCA CAA GAC AAG GGT CCT AAA ACA GGA TCA ATA	2566

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/528,031

DATE: 07/30/2001  
TIME: 15:59:55

Input Set : A:\seqlst.txt  
Output Set: N:\CRF3\07302001\I528031.raw

263	Gly	Ser	Gln	Lys	Lys	Ser	Gln	Asp	Lys	Gly	Pro	Lys	Thr	Gly	Ser	Ile	
264			805						810					815			
266	AAG	AAG	GAA	AAA	GCA	GTA	AAG	CCA	GAG	GAA	GGG	CAG	CTT	GTG	CAG	CTG	2614
267	Lys	Lys	Glu	Lys	Ala	Val	Lys	Pro	Glu	Glu	Gly	Gln	Leu	Val	Gln	Leu	
268					820				825				830				
270	GAA	GAG	AAA	GGG	CAG	GGT	TCA	GTG	CCC	TGG	TCA	GTA	TAT	GGT	GTC	TAC	2662
271	Glu	Glu	Lys	Gly	Gln	Gly	Ser	Val	Pro	Trp	Ser	Val	Tyr	Gly	Val	Tyr	
272					835				840			845					
274	ATC	CAG	GCT	GCT	GGG	GGC	CCC	TTG	GCA	TTC	CTG	GTT	ATT	ATG	GCC	CTT	2710
275	Ile	Gln	Ala	Ala	Gly	Gly	Pro	Leu	Ala	Phe	Leu	Val	Ile	Met	Ala	Leu	
276	850				855					860			865				
278	TTC	ATG	CTG	AAT	GTA	GGC	AGC	ACC	GCC	TTC	AGC	ACC	TGG	TGG	TTG	AGT	2758
279	Phe	Met	Leu	Asn	Val	Gly	Ser	Thr	Ala	Phe	Ser	Thr	Trp	Trp	Leu	Ser	
280					870				875			880					
282	TAC	TGG	ATC	AAG	CAA	GGA	AGC	GGG	AAC	ACC	ACT	GTG	ACT	CGA	GGG	AAC	2806
283	Tyr	Trp	Ile	Lys	Gln	Gly	Ser	Gly	Asn	Thr	Thr	Val	Thr	Arg	Gly	Asn	
284					885				890			895					
286	GAG	ACC	TCG	GTC	AGT	GAC	AGC	ATG	AAG	GAC	AAT	CCT	CAT	ATG	CAG	TAC	2854
287	Glu	Thr	Ser	Val	Ser	Asp	Ser	Met	Lys	Asp	Asn	Pro	His	Met	Gln	Tyr	
288					900				905			910					
290	TAT	GCC	AGC	ATC	TAC	GCC	CTC	TCC	ATG	GCA	GTC	ATG	CTG	ATC	CTG	AAA	2902
291	Tyr	Ala	Ser	Ile	Tyr	Ala	Leu	Ser	Met	Ala	Val	Met	Leu	Ile	Leu	Lys	
292					915				920			925					
294	GCC	ATT	CGA	GGG	GTT	GTC	TTT	GTC	AAG	GGC	ACG	CTG	CGA	GCT	TCC	TCC	2950
295	Ala	Ile	Arg	Gly	Val	Val	Phe	Val	Lys	Gly	Thr	Leu	Arg	Ala	Ser	Ser	
296	930				935					940			945				
298	CGG	CTG	CAT	GAC	GAG	CTT	TTC	CGA	AGG	ATC	CTT	CGA	AGC	CCT	ATG	AAG	2998
299	Arg	Leu	His	Asp	Glu	Leu	Phe	Arg	Arg	Ile	Leu	Arg	Ser	Pro	Met	Lys	
300					950				955			960					
302	TTT	TTT	GAC	ACG	ACC	CCC	ACA	GGG	AGG	ATT	CTC	AAC	AGG	TTT	TCC	AAA	3046
303	Phe	Phe	Asp	Thr	Thr	Pro	Thr	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys	
304					965				970			975					
306	GAC	ATG	GAT	GAA	GTT	GAC	GTG	CGG	CTG	CCG	TTC	CAG	GCC	GAG	ATG	TTC	3094
307	Asp	Met	Asp	Glu	Val	Asp	Val	Arg	Leu	Pro	Phe	Gln	Ala	Glu	Met	Phe	
308					980				985			990					
310	ATC	CAG	AAC	GTT	ATC	CTG	GTG	TTC	TTC	TGT	GTG	GGA	ATG	ATC	GCA	GGA	3142
311	Ile	Gln	Asn	Val	Ile	Leu	Val	Phe	Phe	Cys	Val	Gly	Met	Ile	Ala	Gly	
312					995				1000			1005					
314	GTC	TTC	CCG	TGG	TTC	CTT	GTG	GCA	GTG	GGG	CCC	CTT	GTC	ATC	CTC	TTT	3190
315	Val	Phe	Pro	Trp	Phe	Leu	Val	Ala	Val	Gly	Pro	Leu	Val	Ile	Leu	Phe	
316	1010				1015					1020				1025			
318	TCA	GTC	CTG	CAC	ATT	GTC	TCC	AGG	GTC	CTG	ATT	CGG	GAG	CTG	AAG	CGT	3238
319	Ser	Val	Leu	His	Ile	Val	Ser	Arg	Val	Leu	Ile	Arg	Glu	Leu	Lys	Arg	
320					1030				1035			1040					
322	CTG	GAC	AAT	ATC	ACG	CAG	TCA	CCT	TTC	CTC	TCC	CAC	ATC	ACG	TCC	AGC	3286
323	Leu	Asp	Asn	Ile	Thr	Gln	Ser	Pro	Phe	Leu	Ser	His	Ile	Thr	Ser	Ser	
324					1045				1050			1055					
326	ATA	CAG	GGC	CTT	GCC	ACC	ATC	CAC	GCC	TAC	AAT	AAA	GGG	CAG	GAG	TTT	3334
327	Ile	Gln	Gly	Leu	Ala	Thr	Ile	His	Ala	Tyr	Asn	Lys	Gly	Gln	Glu	Phe	

**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/09/528,031**

DATE: 07/30/2001

TIME: 15:59:56

Input Set : **A:\seqlst.txt**

Output Set: **N:\CRF3\07302001\I528031.raw**

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]